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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,292	11/26/2003	Nikolaus Bruls	INFN/0042	5561
46798 7	590 07/28/2006		EXAM	INER
PATTERSON & SHERIDAN, LLP			DILDINE JR, R STEPHEN	
Gero McClellan / Infineon Technologies 3040 POST OAK BLVD.,			ART UNIT	PAPER NUMBER
SUITE 1500			2133	
HOUSTON, T	°X 77056		DATE MAILED: 07/28/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/723,292	BRULS, NIKOLAUS
Office Action Summary	Examiner	Art Unit
	R. Stephen Dildine	2133
The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence address
riod for Reply	Y IS SET TO EXPIRE 3	MONTH(S) OR THIRTY (30) DAYS,
WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may	y a reply be timely filed MONTHS from the mailing date of this communication.
atus		
1) Responsive to communication(s) filed on	·	
2b) This position is EIN AI	is action is non-final.	
a) Class this application is in condition for allow	rance except for formal n	natters, prosecution as to the ments is
closed in accordance with the practice under	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.
isposition of Claims	•	
4)⊠ Claim(s) 1-20 is/are pending in the application	on.	
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5)⊠ Claim(s) <u>1-16 and 20</u> is/are allowed.		
6)⊠ Claim(s) <u>17-19</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement	
Application Papers		
9)⊠ The specification is objected to by the Exam	iner.	
40\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	a) accepted or b)⊠ (objected to by the Examiner.
a self-and may not request that any objection to	the drawing(s) be held in ac	eyance. See 37 CFN 1.05(a).
and the cor	rection is required if the dra	wing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the atta	icned Office Action of John PTO-132.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for fore	ign priority under 35 U.S	s.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1 M. Certified copies of the priority docum	ents have been received	l.
a Contified copies of the priority docum	ents have been received	in Application No
3 Copies of the certified copies of the	oriority documents have	been received in this National Stage
application from the International Bu	reau (PCT Rule 17.2(a))	•
* See the attached detailed Office action for a	list of the certified copies	s not received.
Attachment(s)	4) 🗀 loto	rview Summary (PTO-413)
1) Notice of References Cited (PTO-892)	Pan	er No(s)/Mail Date ·
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/Statement Notes) Paper Notice of Traftsperson's Patent Drawing Review (PTO-948) 	5) Not 6) Oth	ice of Informal Patent Application (PTO-152) er:

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Specification

The specification is objected to for the following reason: at paragraphs [0002] applicant has written "The invention relates to a decoder for decoding convolutional codes, as claimed in the preamble of patent claim 1" and at paragraph [0078] applicant has written "According to the invention, this object is achieved by the features specified in patent claim 1", whereby applicant is interpreting the specification in light of the claims, however, since MPEP 1205(V)(2) states that claims shall be interpreted in light of the specification, these statements result in a circular reference between claims and specification. MPEP 1205(V)(2) is reproduced below:

2. Claims Particularly Pointing Out and Distinctly Claiming the Invention

Office personnel shall determine whether the claims set out and circumscribe the invention with a reasonable degree of precision and particularity. In this regard, the definiteness of the language must be analyzed, not in a vacuum, but always in light of the teachings of the disclosure as it would be interpreted by one of ordinary skill in the art. Applicant's claims, interpreted in light of the disclosure, must reasonably apprise a person of ordinary skill in the art of the invention. However, the applicant need not explicitly recite in the claims every feature of the invention. For example, if an applicant indicates that the invention is a particular computer, the claims do not have to recite every element or feature of the computer. In fact, it is preferable for claims to be drafted in a form that emphasizes what the applicant has invented (i.e., what is new rather than old). In re Dossel, 115 F.3d 942, 946, 42 USPQ2d 1881, 1884 (Fed. Cir. 1997).

Further it is unclear which "patent" is being referred to, if it is really an issued patent, then claim 1 would be reject able under 35 USC 102 over admitted prior art, however, it seems that applicant really intended to write "this application's" rather than "patent".

Information Disclosure Statement

The information disclosure statement filed 11 March 2005 fails to comply with 37 CFR 1.98(a)(3)(i) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the "German Patent Office decision to Grant dated September 30, 2003" listed that is not in the English language. It has been placed in the application file, but only the information relative to English language documents referred to therein has been considered as indicated on the form PTO/SB/08b.

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Drawings

The drawings are objected to because at the top of Fig. 14 the equation given as $y=[(x1 \ x2)+x3] \times 4$ should be y=[(x1 • x2)+x3] • x4. Reference is made, for example on page 8 paragraphs [0033] and [0036] to paths and numbers being emphasized in bold in Fig. 1 which are not shown in bold in Fig. 1 filed 22 April 2004.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure, must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 17 starts out with the expression "The Viterbi decoder of one of claims 12" which is unclear since there is only a single claim 12.

Allowable Subject Matter

Claims 1-16 and 20 are allowed.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kong et al. (2002/0053061) is cited to show a high speed Viterbi detector based on radix-8 and radix-16, Hebron et al. (2002/0097821) is cited to show multibit signals applied to a Viterbi decoder, Lee et al. (2004/0122883) is cited to show an add-compare-select (ACS) circuit for a radix-4 Viterbi decoder, Hwang et al. (2004/0252794) is cited to show a radix-4 Viterbi decoder, the Meier and Fettweis et al. articles are cited to show parallel Viterbi decoding

Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. Stephen Dildine whose telephone number is (571) 272-3820. The examiner can normally be reached on M - F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

R. Stephen Dildine

R. Stephe Dildine

R. Stephen Dildine Primary Examiner Art Unit 2133